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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/044,045	01/11/2002	Ahmad Reza Kashani	UVD 0298 PA	2608
75	7590 12/21/2005		EXAMINER	
Killworth, Gottman, Hagan & Schaeff, L.L.P One Dayton Centre, Suite 500		PENDLETON, BRIAN T		
Dayton, OH 4			ART UNIT	PAPER NUMBER
• •			2644	

DATE MAILED: 12/21/2005

Please find below and/or attached an Office communication concerning this application or proceeding.

		Application No.	Applicant(s)		
		10/044,045	KASHANI, AHMAD REZA		
	Office Action Summary	Examiner	Art Unit		
		Brian T. Pendleton	2644		
Period fo	The MAILING DATE of this communication apport	pears on the cover sheet with the	correspondence address		
A SH WHIC - Exte after - If NC - Failu Any	ORTENED STATUTORY PERIOD FOR REPL CHEVER IS LONGER, FROM THE MAILING D nsions of time may be available under the provisions of 37 CFR 1.1 SIX (6) MONTHS from the mailing date of this communication. Depriod for reply is specified above, the maximum statutory period in the to reply within the set or extended period for reply will, by statute reply received by the Office later than three months after the mailin ed patent term adjustment. See 37 CFR 1.704(b).	ATE OF THIS COMMUNICATION (36(a). In no event, however, may a reply be ting will apply and will expire SIX (6) MONTHS from a, cause the application to become ABANDONE	N. mely filed n the mailing date of this communication. ED (35 U.S.C. § 133).		
Status					
1)⊠ 2a)□ 3)□	This action is FINAL . 2b) This action is non-final.				
Disposit	ion of Claims				
5)⊠ 6)⊠ 7)⊠ 8)□ Applicati	4) Claim(s) 1-65 is/are pending in the application. 4a) Of the above claim(s) 8-16,25-28 and 42-65 is/are withdrawn from consideration. 5) Claim(s) 34-41 is/are allowed. 6) Claim(s) 1-7,17-22 and 29-33 is/are rejected. 7) Claim(s) 23 and 24 is/are objected to. 8) Claim(s) are subject to restriction and/or election requirement. plication Papers 9) The specification is objected to by the Examiner.				
10) ☐ The drawing(s) filed on 11 January 2002 is/are: a) ☐ accepted or b) ☐ objected to by the Examiner. Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a). Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d). 11) ☐ The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.					
Priority u	ınder 35 U.S.C. § 119				
 12) Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f). a) All b) Some * c) None of: 1. Certified copies of the priority documents have been received. 2. Certified copies of the priority documents have been received in Application No. 3. Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)). * See the attached detailed Office action for a list of the certified copies not received. 					
2) 🔲 Notic 3) 🔯 Inforn	t(s) e of References Cited (PTO-892) e of Draftsperson's Patent Drawing Review (PTO-948) mation Disclosure Statement(s) (PTO-1449 or PTO/SB/08) r No(s)/Mail Date	4) Interview Summary Paper No(s)/Mail D 5) Notice of Informal P 6) Other:	(PTO-413) ate Patent Application (PTO-152)		

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DETAILED ACTION

Election/Restrictions

Claims 8-16, 25-28, and 42-65 are withdrawn from further consideration pursuant to 37 CFR 1.142(b) as being drawn to a nonelected species, there being no allowable generic or linking claim. Election was made without traverse in the reply filed on 8/8/05.

Claim Rejections - 35 USC § 102

The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless -

(b) the invention was patented or described in a printed publication in this or a foreign country or in public use or on sale in this country, more than one year prior to the date of application for patent in the United States.

Claims 1-7, 17-22, 29, and 31-33 are rejected under 35 U.S.C. 102(b) as being anticipated by Fischer et al, US Patent 5,748,748. In figure 1, Fischer et al disclose a vehicle body 14 (enclosure defining a plurality of low frequency acoustic modes), microphone 40 (acoustic wave sensor), accelerometer 28 (motion detector), loudspeaker 44 (acoustic wave actuator), whereby the first electronic feedback loop is the electronic path through operation detection unit 18 and selector device 36. The second electronic feedback loop is the electronic path through tripping device 39. Claims 1, 3, 17, and 33 are met. Regarding claims 2, inherently there are low frequency structural vibration acoustic modes in a vehicle during its movement. As to claims 4, 5, the motion sensor picks up the low frequency acoustic modes produced by the vibration of the vehicle body 14 and sends an electric signal to operation detection unit 18. As to claims 6 and 7,

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the motion sensor meets the limitations. Per claim 18, microphone 40 is located inside the vehicle body 14. Regarding claims 19-22, as similar to the accelerometer 28, the microphone 40 is capable of producing an sensor signal representative of low frequency acoustic modes and sending an electric signal to tripping device 39. As to claim 29, the microphone 40 and loudspeaker 44 are collocated within the vehicle body 14. Regarding claim 31, the loudspeaker 44 is configured to send a secondary vibration S which is opposite in phase of the primary oscillation P calculated by selector device 36. Per claim 32, there is a change of air volume velocity produced by the loudspeaker 44.

Claim Rejections - 35 USC § 103

The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.

Claim 30 is rejected under 35 U.S.C. 103(a) as being unpatentable over Fischer et al in view of Fuller, US Patent 4,715,559. Fischer et al do not disclose that the acoustic wave actuator and acoustic wave sensor are positioned to correspond to the location of the acoustic anti-node of a target acoustic mode within the vehicle. Fuller discloses an apparatus for noise reduction in an enclosure comprising a plurality of microphones 26 and actuators 24. As taught in column 8 lines 21-37, the microphones 26 are located to detect acoustic modes. Therefore, it would have been obvious to one of ordinary skill in the art at the time of invention to modify Fischer et al by positioning the microphone 40 with regard to a target acoustic mode, as taught by Fuller, for the purpose of canceling a particular noise component.

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Allowable Subject Matter

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Claims 34-41 are allowed.

Claims 25-28 are objected to as being dependent upon a rejected base claim, but would

be allowable if rewritten in independent form including all of the limitations of the base claim

and any intervening claims.

Conclusion

Any inquiry concerning this communication or earlier communications from the

examiner should be directed to Brian T. Pendleton whose telephone number is (571) 272-7527.

The examiner can normally be reached on M-F 7-4:30.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's

supervisor, Vivian Chin can be reached on (571) 272-7848. The fax phone number for the

organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent

Application Information Retrieval (PAIR) system. Status information for published applications

may be obtained from either Private PAIR or Public PAIR. Status information for unpublished

applications is available through Private PAIR only. For more information about the PAIR

system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR

system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

Brian T. Pendleton Primary Examiner

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btp